

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| L1    | 2    | cementite near (volume fraction) and fatigue   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/10/10 10:33 |
| L2    | 2    | cementite near (volume (fraction or percent)) and fatigue                            | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2007/10/10 10:33 |
| L6    | 35   | B22D7/00.ipc.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO;<br>IBM_TDB                  | ADJ              | ON      | 2007/10/10 10:35 |
| L17   | 682  | M27-C03  | DERWENT  | ADJ              | ON      | 2007/10/10 11:15 |
| L18   | 105  | M27-C03 and ferrite  | DERWENT  | ADJ              | ON      | 2007/10/10 10:36 |
| L19   | 85   | M27-C03 and ferrite and (silicon or si)  | DERWENT  | ADJ              | ON      | 2007/10/10 10:37 |
| L20   | 85   | M27-C03 and ferrite and (silicon or si) and (manganese or mn)                        | DERWENT  | ADJ              | ON      | 2007/10/10 10:37 |
| L21   | 34   | M27-C03 and ferrite and (silicon or si) and (manganese or mn) and (molybdenum or mo) | DERWENT  | ADJ              | ON      | 2007/10/10 10:37 |
| L22   | 7    | M27-C03 and ferrite and cementite  | DERWENT  | ADJ              | ON      | 2007/10/10 10:38 |
| L23   | 18   | M27-C03 and cementite  | DERWENT  | ADJ              | ON      | 2007/10/10 11:32 |
| L24   | 30   | drive shaft and cementite  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ              | ON      | 2007/10/10 10:55 |
| L25   | 441  | 148/575,334.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ              | ON      | 2007/10/10 10:55 |
| L26   | 63   | 148/575,334.ccls. and cementite  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ              | ON      | 2007/10/10 11:26 |
| L27   | 5    | 148/575,334.ccls. and cementite near30 (volume or percent)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ              | ON      | 2007/10/10 10:59 |

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|     |     |   |  |     |    |                  |
|-----|-----|---|--|-----|----|------------------|
| L28 | 133 | steel and cementite near30 (volume or percent)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/10 10:59 |
| L29 | 48  | steel and cementite near30 (volume or percent) and fatigue      | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/10 11:00 |
| L30 | 46  | steel and cementite near30 (volume or percent) and fatigue      | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/10 11:00 |
| L34 | 2   | "20070000582"   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 11:08 |
| L35 | 2   | "5279688".pn.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 11:10 |
| L41 | 16  | cementite and (drive shaft or power transmission) and ductility | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/10 11:38 |
| L42 | 1   | "20040099355"   | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/10 11:39 |
| L43 | 24  | cementite and drive shaft                                       | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/10 11:39 |
| L44 | 2   | induction quenching near martensite                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/10 14:16 |
| L45 | 3   | induction hardening near martensite                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/10 14:17 |
| S1  | 2   | "20060057419"   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 09:30 |

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|     |      |   |  |     |    |                  |
|-----|------|---|--|-----|----|------------------|
| S2  | 1    | EP04700501  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/04 16:42 |
| S3  | 2829 | Hayashi-T.in.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:03 |
| S4  | 123  | (Hayashi-T.in. or Matsuzaki-A.in.)<br>and steel   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:22 |
| S5  | 22   | (Hayashi-T.in. or Matsuzaki-A.in.)<br>and ferrite | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:34 |
| S6  | 788  | JFE steel   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/10 14:15 |
| S7  | 753  | JFE steel.as.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:35 |
| S8  | 43   | JFE steel.as. and fatigue and ferrite             | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:39 |
| S9  | 630  | toyooka.in.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:39 |
| S10 | 163  | toyooka.in. and steel                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:39 |
| S11 | 51   | toyooka.in. and steel and ferrite                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                         | ADJ | ON | 2007/10/09 08:45 |
| S12 | 2186 | 428/544,638,677,683,684.ccls.                     | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:52 |
| S13 | 1240 | 428/544,638,677,683,684.ccls. and<br>steel        | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:52 |

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|-----|------|---|--|-----|----|------------------|
| S14 | 93   | 428/544,638,677,683,684.ccls. and steel and MPa   | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:54 |
| S15 | 118  | 428/544,638,677,683,684.ccls. and steel and ferrite   | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:56 |
| S16 | 6469 | 148/320-418.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:56 |
| S17 | 3874 | 148/320-418.ccls. and steel   | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:56 |
| S18 | 1593 | 148/320-418.ccls. and steel and (ferrite or cementite)  | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:57 |
| S19 | 467  | 148/320-418.ccls. and steel and (ferrite or cementite) and fatigue  | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 08:57 |
| S20 | 172  | 148/320-418.ccls. and steel and (ferrite or cementite) and fatigue and grain near size                        | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 09:00 |
| S21 | 3617 | 148/320-418.ccls. and (C or carbon) and (si or silicon) and (mn or manganese)                                 | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 09:00 |
| S22 | 1487 | 148/320-418.ccls. and (C or carbon) and (si or silicon) and (mn or manganese) and ferrite                     | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 09:01 |
| S23 | 514  | 148/320-418.ccls. and (C or carbon) and (si or silicon) and (mn or manganese) and ferrite and grain near size | US-PGPUB;<br>USPAT;<br>USOCR                                     | ADJ | ON | 2007/10/09 09:01 |
| S24 | 7    | "6331216"   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/09 09:07 |
| S26 | 2    | "20060065328"   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/09 10:52 |
| S27 | 2    | "5279688".pn.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/09 10:55 |

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|     |       |  |  |     |    |                  |
|-----|-------|--|--|-----|----|------------------|
| S28 | 2     | "6660105".pn.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/09 10:55 |
| S29 | 11736 | Ochi.in.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:37 |
| S30 | 389   | Ochi-T.in.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:37 |
| S31 | 34    | Ochi-T.in. and steel   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:50 |
| S32 | 1154  | steel and ferrite and cementite  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:50 |
| S33 | 300   | steel and ferrite near cementite   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:50 |
| S35 | 215   | steel and ferrite near cementite and<br>(si or silicon) and (mn or<br>manganese)                           | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:51 |
| S36 | 132   | steel and ferrite near cementite and<br>(si or silicon) and (mn or<br>manganese) and (molybdenum or<br>mo) | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 08:32 |

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|     |     |  |  |     |    |                  |
|-----|-----|--|--|-----|----|------------------|
| S37 | 52  | steel and ferrite near cementite and (si or silicon) and (mn or manganese) and (molybdenum or mo) and strength and fatigue | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 07:52 |
| S38 | 73  | steel and ferrite near cementite and grain size  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 08:32 |
| S39 | 31  | steel and ferrite near cementite and grain size and fatigue  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 08:33 |
| S40 | 561 | drive shaft and grain size   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 08:33 |
| S41 | 260 | drive shaft and grain size and steel   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 08:33 |
| S42 | 74  | drive shaft and grain size and steel and fatigue   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 11:06 |
| S43 | 27  | cementite near (volume or fraction) and steel  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/10/10 09:17 |